

## Abstract

### REMOTE SCORING AND AGGREGATING SIMILARITY SEARCH ENGINE FOR USE WITH RELATIONAL DATABASES

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The invention provides a system and method for defining a schema and sending a query to a Similarity Search Engine to determine a quantitative assessment of the similarity between an anchor record and at least one search record. The invention makes a similarity assessment in a single pass through the target records having multiple relationship characteristics. The Similarity  
10 Search Engine is a server configuration comprising a Gateway for command and response routing, a Virtual Document Manager for document generation, a Search Manager for SQL statement generation, and one or more Database Management Systems for data persistence and retrieval, and access to User Defined Functions. By locating the scoring and aggregation functions in remotely located User Defined Functions embedded within Database Management  
15 Systems, network and Search Manager activity is greatly reduced. The system architecture enables partitioned searches among multiple Database Management Systems for reducing search times and network activity.